

Reference Table 1

		ester name	alcohol component peroxide value	catalyst carbonyl value	Properties of esters							Long-term hydrolysis stability				
					Hazen color number	1)total acid number	2)sulfated ash content	3)sulfur content	4)phosphorus content	5)peroxyde value	6)carboxyl value	7)Volumne resistivity				
example	I - 1	Diisobutyl 4- cyclohexene-1,2-dicarboxylate	0.2	0.3 tin hydroxide	10	0.01	1	<1	<1	0.3	0.8	8.6x10 ¹¹	0.2	16	0.53	0.83
	I - 2	Di(2-ethylhexyle-1,2-dicarboxylate)	0.1	0.2 tin oxide	10	0.01	<1	<1	<1	0.2	0.5	9.5x10 ¹¹	0.8	12	0.48	0.72
	I - 5	Diisodecyl 4- cyclohexene-1,2-dicarboxylate	0.8	0.5 tin oxide	20	0.01	1	<1	<1	0.6	1.2	8.9x10 ¹³	0.2	25	0.7	0.83
comparative example	I - 1	Diisobutyl 4- cyclohexene-1,2-dicarboxylate	1.3	P ⁻ toluenesulfonic acid	120	0.01	<1	22	<1	6.4	15.2	3.2x10 ¹⁰	0.5	20	3.82	14.82
	I - 2	Diisobutyl 4- cyclohexene-1,2-dicarboxylate	0.2	0.3 toluenesulfonic acid	20	0.01	<1	25	<1	0.2	0.6	3.9x10 ¹⁰	0.3	13	2.99	10.27
	I - 3	Di(2-ethylhexyle-1,2-dicarboxylate)	0.7	4.8 phosphoric acid	100	0.01	<1	<1	32	1.3	3.9	3.1x10 ¹⁰	1.2	33	3.16	7.56
content of claims	I - 4	Diisodecyl 4- cyclohexene-1,2-dicarboxylate	1.8	3.9 tin oxide	70	0.02	2	<1	<1	5	7.6	4.1x10 ¹²	0.4	27	1.51	3.38
			<=1.0	absent or sulfur free and phosphorous free	<=0.05	<=10	<=20	<=20	<=1.0	>=10	>=1.0x10 ¹¹	<=3	<=100			

